

FIG. 1

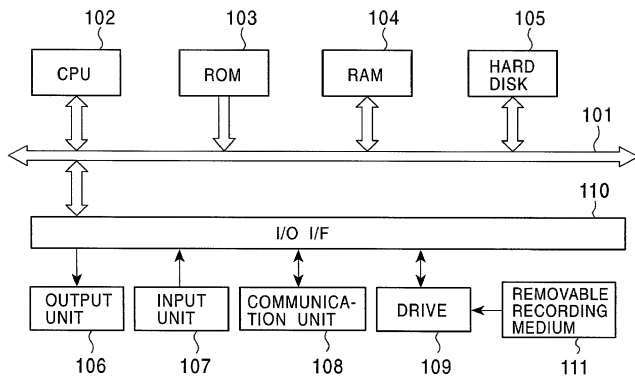


FIG. 2

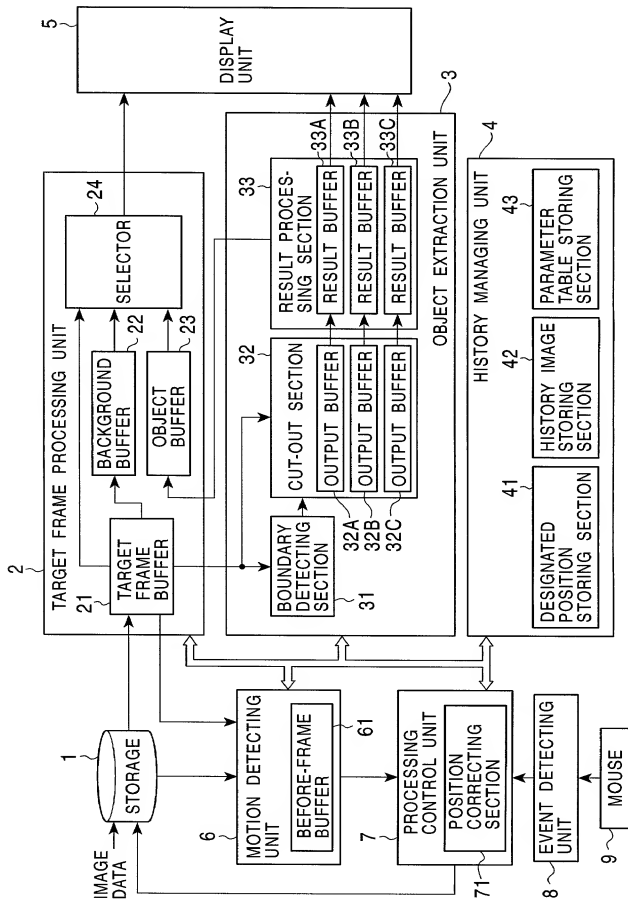


FIG. 3

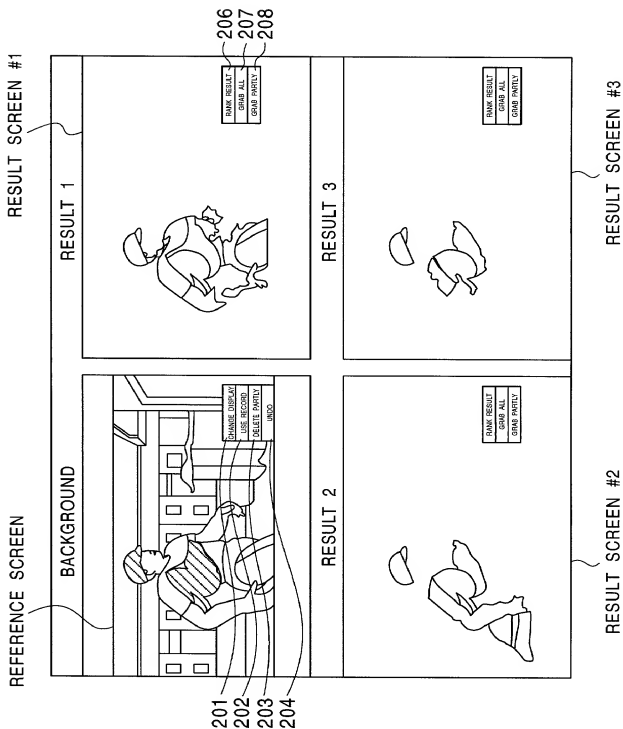


FIG. 4

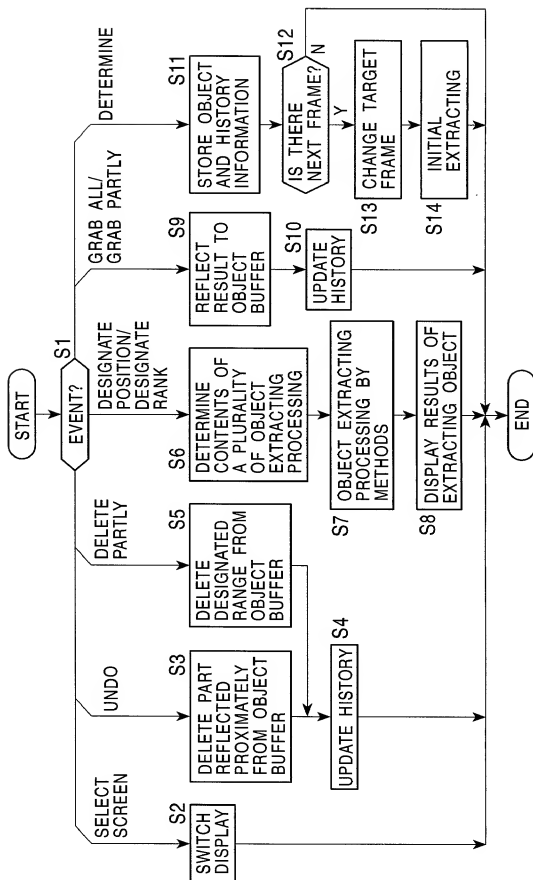
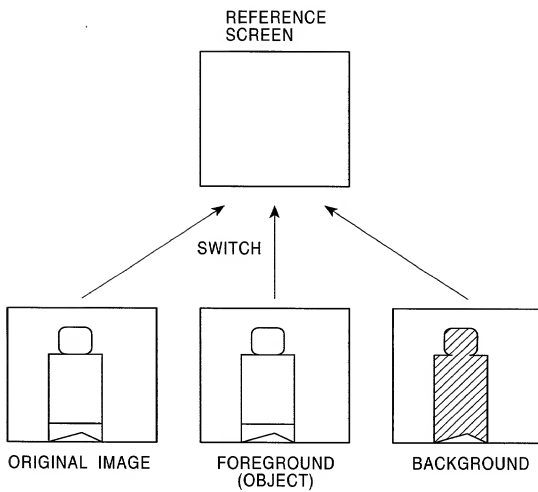


FIG. 5



09550019.091001

FIG. 6

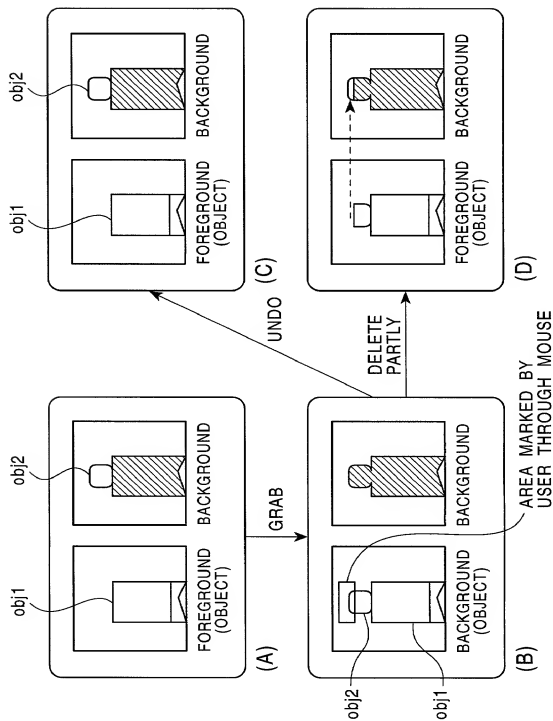


FIG. 7

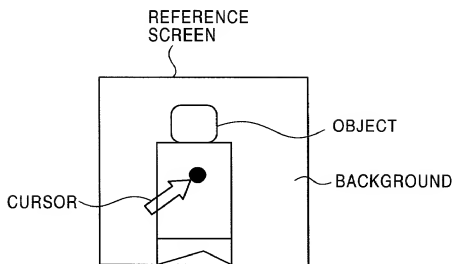


FIG. 8A

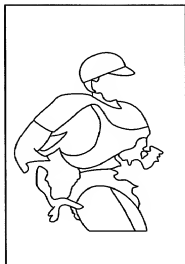


FIG. 8B

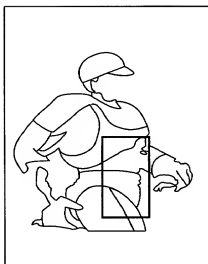


FIG. 8C

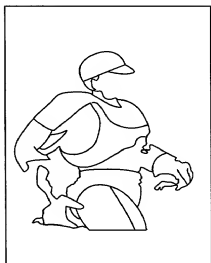


FIG. 8D

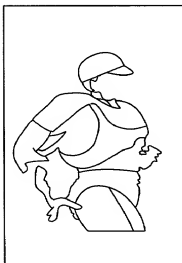
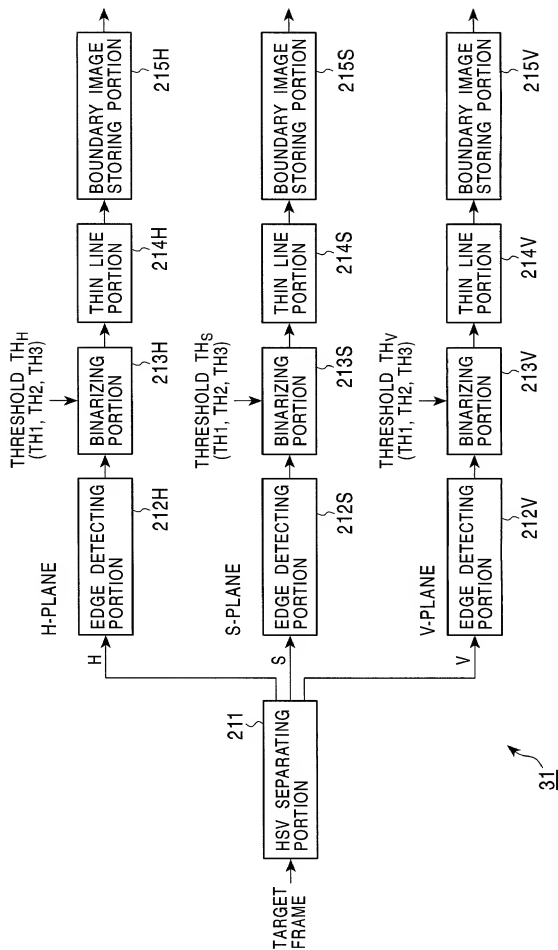


FIG. 9



```

graph TD
    Start([START LIGHT LINE PROCESSING]) --> S21[V=0 S21]
    S21 --> S22[REFER TO PIXELS IN ORDER OF RASTER SCANNING]
    S22 --> S23{END REFERRING? S23}
    S23 -- Y --> S30{V=0? S30}
    S23 -- N --> S24{IS ANY OF FOUR ADJACENT PIXELS 0? C1=a? S24}
    S30 -- Y --> End([END])
    S30 -- N --> S21
    S24 -- N --> S22
    S24 -- Y --> S25[V=1 S25]
    S25 --> S26{a1+a2+...+a8 ≤ 6? S26}
    S26 -- N --> S28[C=a S28]
    S26 -- Y --> S27{((a2+a4+a6+a8)-(a1&a2&a3)-(a4&a5&a6)-(a7&a8&a1))=1? S27}
    S27 -- Y --> S29[C=0 S29]
    S27 -- N --> S28
    S28 --> S22
    S29 --> S22

```

a4	a3	a2
a5	C	a1
a6	a7	a8

FIG. 11A

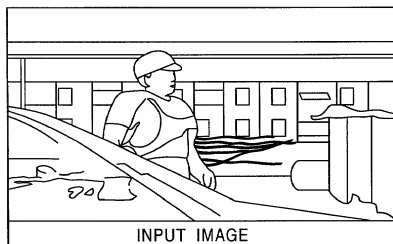


FIG. 11B

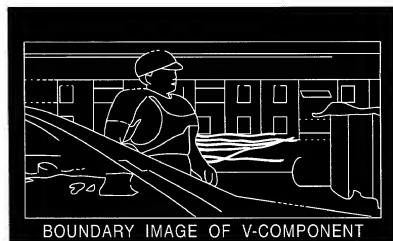


FIG. 11C

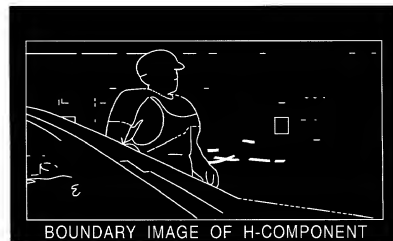


FIG. 12

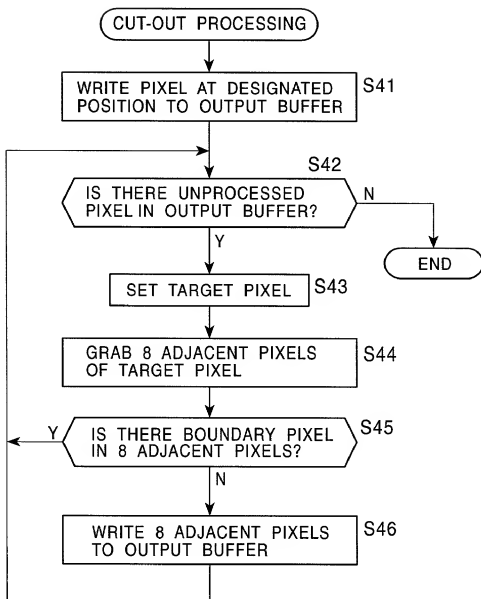


FIG. 13

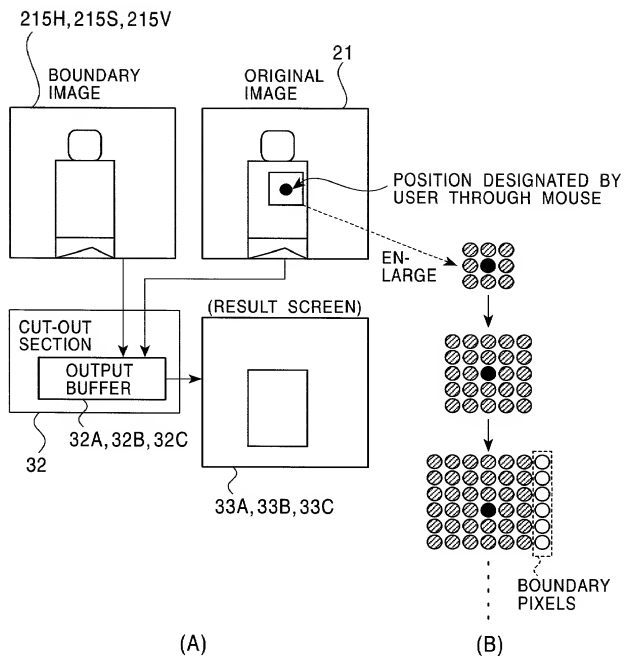
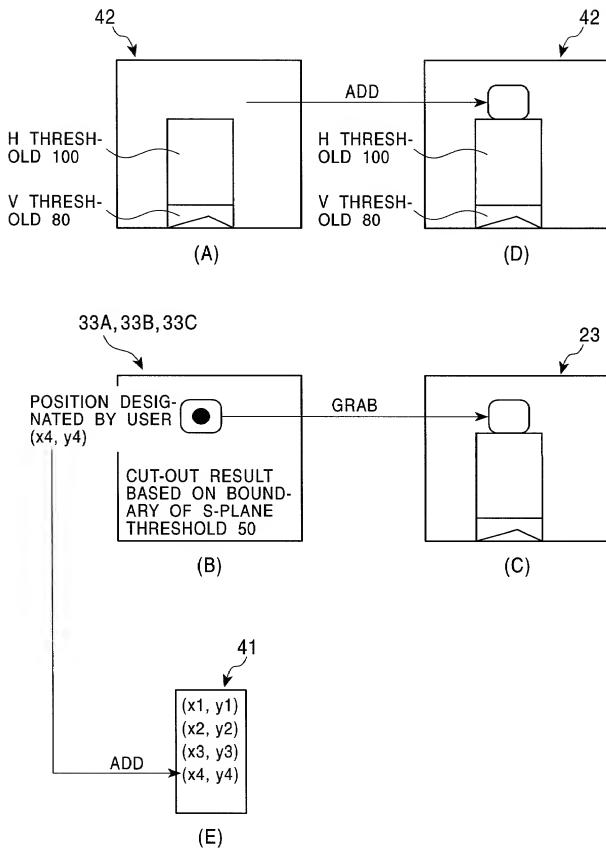


FIG. 14



0050019.091001 100160.6100666

FIG. 15

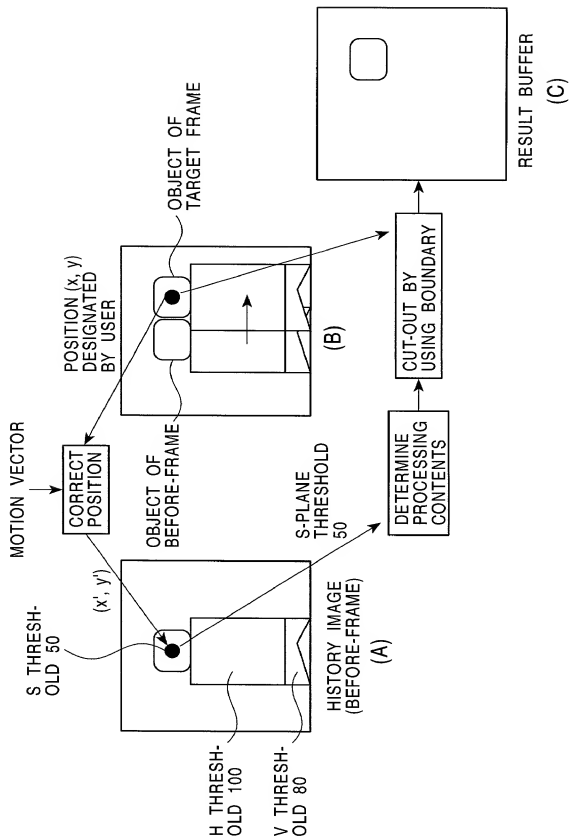


FIG. 16

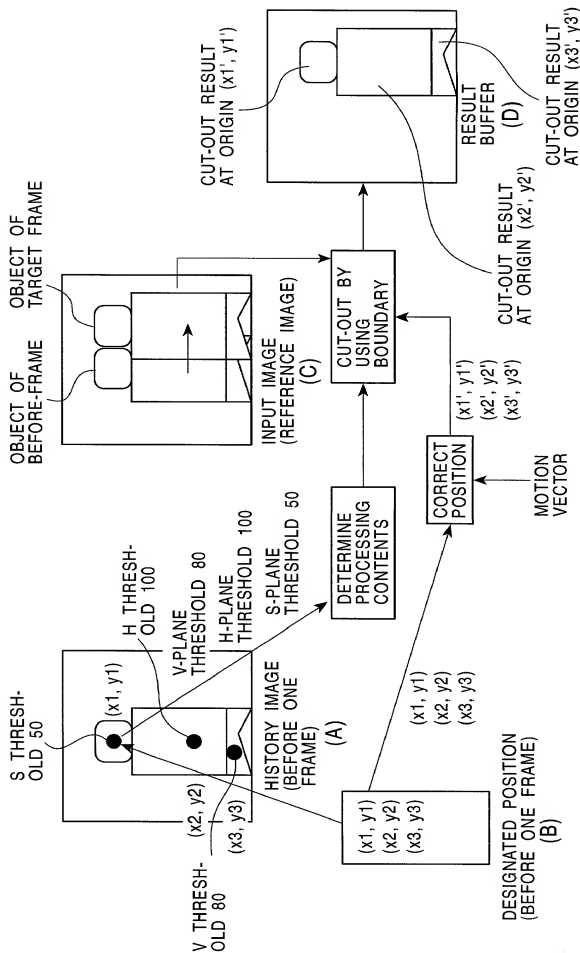


FIG. 17

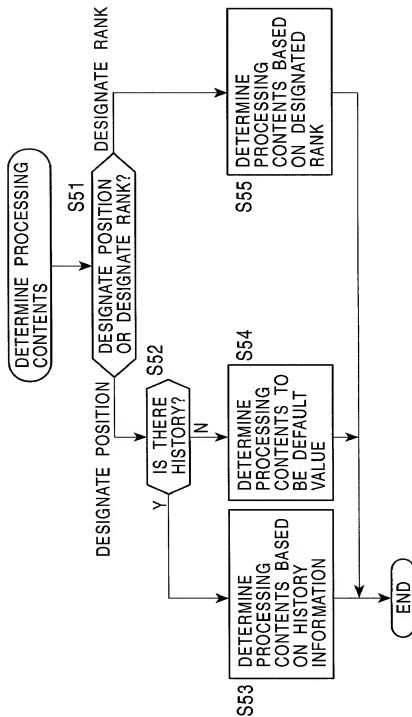


FIG. 18A

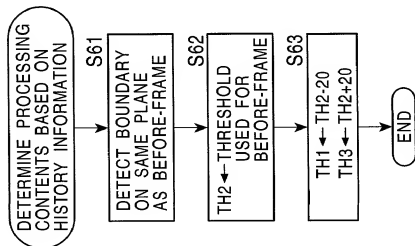


FIG. 18B

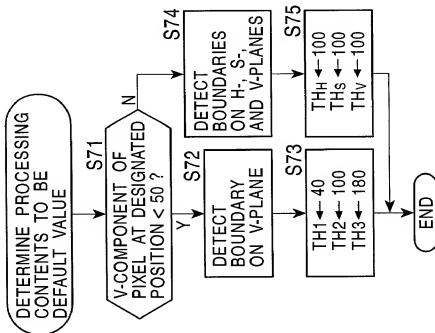


FIG. 18C

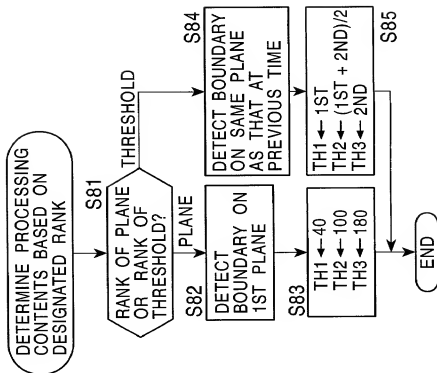


FIG. 19

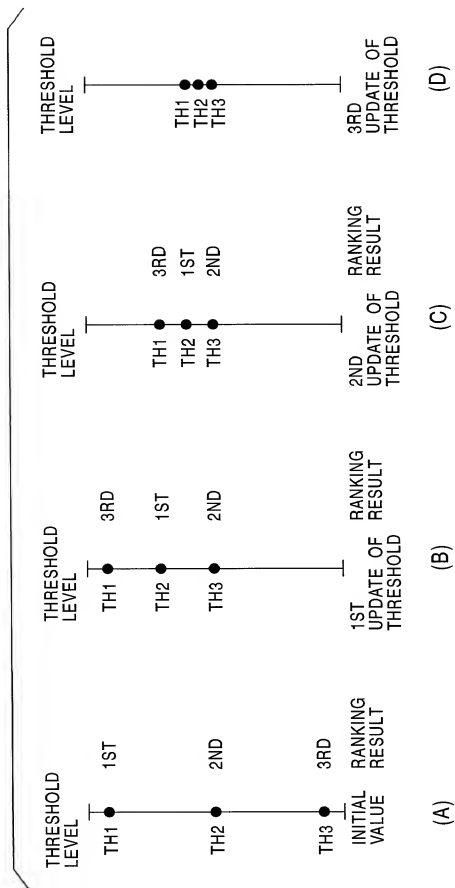


FIG. 20

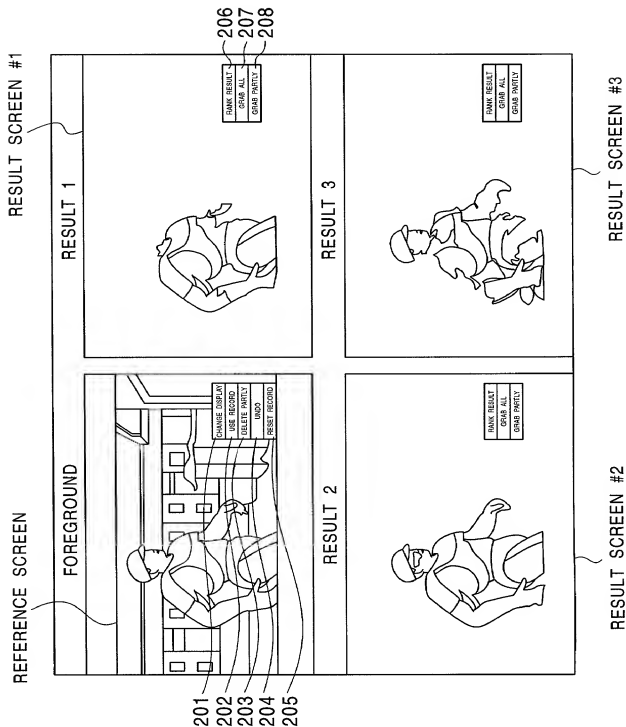


FIG. 21

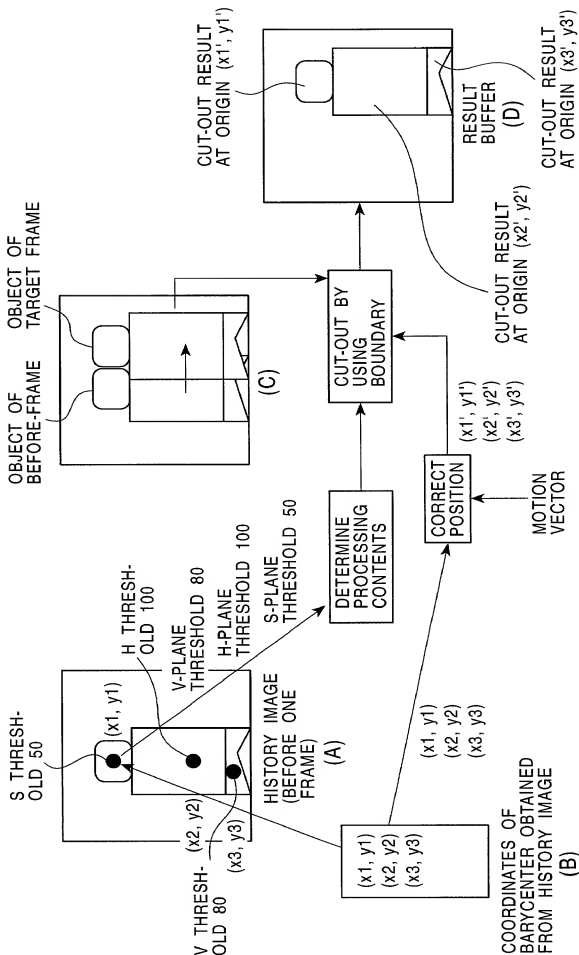


FIG. 22

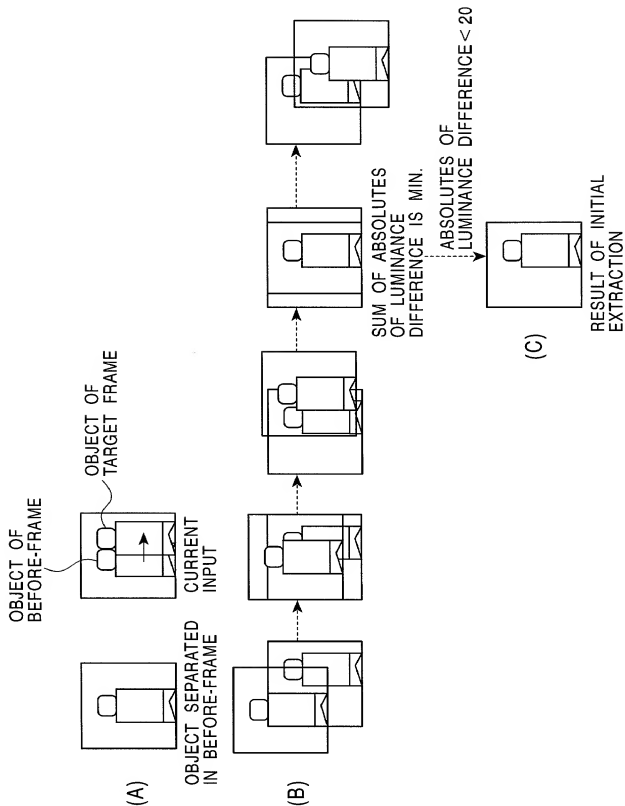


FIG. 23

